HOARD'S DAIRYMAN

The 2002 index — your guide to more profitable dairying

Index to Volume 147

HOARD'S DAIRYMAN

W. D. Hoard and Sons Company, Publishers
Fort Atkinson, Wis. 53538

All pages followed by an (R) are in our regional editions only.
EXPO pages are in September 10.

- A -

Abomasum--displaced .. 89-285
Abortions--unexplained 415
Abusive behavior 335
Acidosis--forage digestibilities drop with 424
-risk 588
Advice--spouses number one source of 821
Ag Source--Belmont Labs purchased by 382
Agriculture--graduate studies program 175
Agway--restructuring 382
Air--quality testing (swine barn) 316
Alcohol pads--mastitis treatment 8
Alfalfa--California acreage . 175
-drying 149
-fertilizer 726
-herbicides for newly seeded 180
-hybrid 304
-manure application 320
-potato leaf hoppers 424
-seeding plan 719
-stand assessment 272
-top 10 states 311
-wheel traffic cuts yields .. 388
-yields (boosting) 273
All-American Dairy Show --youth show supreme champion 507
All-American Jersey Show . 801
All-Dairy Antiques and Collectibles Show 311
Along the Way . 31-79-119-163-209-253-297-335-365-401-455-495-535-571-597-639-677-725-771-823
Alta Genetics--Belgium bull marketing 95
Alto Dairy Cooperative --cheese yield project 266
American Dairy Science Assn. --award winners 606
-reproductive management .13
-research reports 619
American Guernsey Cattle Assn.--annual meeting ... 515
American Jersey Cattle Assn. --annual meeting 514
-PTI changes 550
American Milking Shorthorn Society--annual meeting 769
Anhydrous ammonia--injection depth 316
Animal Agricultural Alliance --formed 573
Animal food production --understanding 572
Animal welfare--Europe 511
-larger herds 808
-Ohio State University 266
Animals--composting dead . 70-355
Anionic salts--feeding 17
Anthrax--burning carcasses . 270
Antibiotics--milk (safety) 671
-milk testing 512
-resistance 472
Antiques--Guernsey 311
Argentina--milk production ... 46
Artificial breeding--bull mothers 329
-calving ease evaluations 626
-cross-breeding 154
-CVM 3-69-154
-economics of 668
-embryonic losses 768
-heifers (new synch method) 532
-inbreeding 154
-longevity traits 244
-repro terms 290
-reproductive management .117
-resynchronization 594
-summer 443
Associated Milk Producers --equity payment 419
Ayars, L., wins Klussendorf scholarship 691
Ayrshire Breeders Assn. --annual meeting 515
Ayrshire cow--Mini-Ayr IC Charlene (milk and protein records) 140
-Shamrock Hills Splotchy (highest scored living Ayrshire) 149
Ayrshires--promotion for 510

- B -

Badger Dairy Camp 223-336
Bag silos 426
Baleage--making 392-422
Bales--wrapped square 356
Barn--University of Wisconsin Dairy, placed on National Register Historic Places .. 222
Barns--free stall (air quality) 479
-free stall (headlocks) 395
-lighting 591
-milk production hindered by facilities 656
-site orientation 359
-soft-covered 405
-tie stall 62-228
Bedding--comfort test 352-366-391
-dry cow 413
-management 391
-recycled sand 424
Beef--checkoff upheld 3
-convenience products 174
-irradiation 528
-prices (2002 forecast) 222
Beef Promotion and Research Act--violators .. 650
Behavior--abusive 335
Behnke, L. (World Dairy Expo) ..... EXPO 16
Bennink, D. (foreign exchange labor) 661
Beverage--milk-based 651
Biosecurity--dividends 447
-federal funds 223
-show season 406-502
Biotin--feeding 140-744
Birds--salmonella-infected, may not cause disease . 186
Birthday parties 79
Black Hills Milk Producers --joins Dairy Farmers of America 582
Blaska, G. (Industry Person of the Year) ..... EXPO 17
Bleach--disinfectant 646
Blessing, S., wins Klussendorf Award ..... EXPO 29
Blood donations--limits (European visitors) 467
BLV--control measures 243
Bone loss--calcium/protein slow 424
Book--Ed and Emma, available 750
Boston--Class I price 433
Bou-Matic--J.P. Knotts & Co. buys 383
Bovine viral diarrhea (see BVD)
Breeding--fertility 156
-presynchronization 792
Britten, A., new Milk Quality editor 610
Brown Swiss Assn.--annual meeting 514
-Kendall new executive secretary 134
Brown Swiss bull--offspring record 31
Brown Swiss cow--IE Fabs Maple Sugar (lifetime milk production leader of breed) 42
-Kruses GK Jade Fantasy Vix 17
-Top Acres PR Popsy (production leader of Swiss breed) 8
Brown Swiss cows --classification scores 17
BST--conception rates 357
-delaying, with first-calf heifers 656
Building--avoiding mistakes .481
-cost overruns 542
Bulk tank--sampling 52
-water in (prevention) 616
Bull list ..... 193 to 200, 428 ..and 429, 559 to 566, 799 and ..800
Bulls--CVM 388
-Holstein (CVM testing) 3
-trichomonas spread from 713
Bunker silos--covers 424
Burroughs, C and W. ..... 28 (R)
Buyer's group 700
BVD--living with 745
-screening and monitoring 42-376
-series 697-745-793
-vaccinating calves for 352
-vaccination programs 697,793

- C -

Cal Poly Dairy Science Department--100th anniversary 691
Calcium--health advanatage . 635
-osteoporosis caused by low 222
-protein slow bone loss .. 424
-3-A-Day program ..... 728 (R)
-weight control 3
Calf--purchasing 80
California--air pollution regulations 467
-alfalfa acreage 175
-fluid milk standards 47
-gas and diesel for farming exempt from sales and use taxes 3
-grazing in southern .... 28 (R)
-methane digesters .. 414-419
-methane digesters (grants) 506
-milk production growth 179
-soda tax 382
-TB found in herd 466
-TB-free status 588
California Dairies--National Milk Producers member . 650
California Mastitis Test (see CMT)
California Milk Producers --Security Trust Fund 645
Call, B., wins Kildee Scholarship ..... EXPO 32
Calves--baby, attacked 651-820
-BVD vaccination 352
-clubbing (arrests made) . 820
-colostrum feeding 696
-diarrhea 201
-early death 91
-facilities 316-662
-feeding (intensive programs) 250-292
-feeding milk replacer (higher solid) 792
-growth 18
-housing (all-in-all-out system) 140
-hutches (bedding) 180
-leukosis 171
-mycoplasma 462
-newborn (diseases) 378
-pneumonia 672
-raising show 205
-raising show (K. and S. Hagen) 121
-respiratory problems 662
-sounds of, boosted milk production 721
-udder swelling 838
-winter care 8
Calving--assistance (safety) 656
-ease 553-626-665
-guidelines for examining cow prior to .. 494
Camp--Badger Dairy 336
-Missouri 4-H 341
Canada--TB in dairy herd .. 466
Cancer--colon, risk cut by drinking milk 347
Carbohydrates--feeding 68
Careers--dairy 644
"Cash for caps" 582
Cattle--hornless ..... EXPO 20
-lameness 203
-skin problems 814
-stress 180
Cattlemen's Beef Promotion and Research Board --budget 645
CD-ROM--"Low-cost Parlor Options" 588
Checkoff--beef, upheld 3
Cheese--Exclusively Swiss (two new cheeses) 223
-identifying varieties 228, 254, 255
-milk and isolated soy protein used to make ... 419
-sales rise 363
-Swiss Valley wins, award .. 2
-yield project (Alto Dairy Co-op) 266
Cheese plant--Sorento, closed 46
Chemicals--safety ..... EXPO 38
Children--kidnapping scare 597
-obesity 334
-infant testosterone levels lowered by soy formula milk 691
-mother's influence on eating and drinking habits 691
-per capita fluid milk consumption 691
-teen ag website 691
Chlorine--water treatment ... 472
Chr. Hansen, Inc.--Foremost alliance with 820
Chronic wasting disease 419
Chutes--hoof-trimming 543
Clone--Holstein, peformance 352
-Infigen 645
-Jersey heifer 168
CMT--new uses 260
Cold--common 823
Collective bargaining 743
Colleges--two-year 600
Colon cancer--risk cut by drinking milk 347
Colorado--quota system ended 170
Colostrum--donor qualifications 306
-feeding 696
-New Zealand marketing . 290
Commodity payments 46
Community--rural 639
Compaction--soil 189
Composting--animal carcasses 70-355
Computers--internet (privacy) 324
-internet classes 573
-software (benchmarking) 223
-software (crop marketing) 223
-software (feeding) 55
Conception rates 13
-A.I. sires ranked on .. 22-485
Construction--avoiding mistakes 481
Consumer product tampering --Indiana dairy farmer convicted of 583
Consumer trust--dairy products 423
Contest--North American Intercollegiate Dairy Challenge 134
Cooling--cows 472
-ponds (Texas ban) 363
Cooperative Resources International--Lyon retires from 134
-Wilson new CEO 134
Cooperatives--AgSource 382
-Agway 382
-Alto Dairy Cooperative .. 266
-Black Hills Milk Producers 582
-change 655
-Dairy Farmers of America 170-328
-decline in numbers 46
-Land O' Lakes 222
-Maryland & Virginia Milk Producers 383
-Michigan Milk Producers 267-582
-Southern Marketing Agency 363
-Swiss Valley Farms .. 95-582
-top 50 657
Copper--toxicity (Jerseys) 8
Copper sulfate--reduced usage 203
-tolerable levels 438
Corn--anhydrous ammonia application 316
-by-products (feeding) 204
-chopping (check moisture) 550
-coarse 623
-drought-damaged ... 472-595-616
-hail-damaged 486
-harvesting (equipment check) 588
-harvesting downed 588
-high-moisture (worth) 623
-hybrid 386
-hybrid selection 272
-maze 299
-processing 720
-production costs 327
-silage (monitoring feed value) 588
-silage (mycotoxins) 517
-silage (pricing) 773
-silage (ryegrass replacement) 792
-silage (top 10 states) 266
Corn planter--tuneup 323
-maintenance for following year 352
Corral--maintenance 568
Council of Dairy Cattle Breeding--proposal to eliminate one USDA sire summary defeated 310
Covington, C., receives Distinguished Service Award 573
Cow judging contest--Ayrshire class 133
-Brown Swiss class 1
-clinic in Japan 792
-Guernsey class 93
-Holstein class 45
-Jersey class 173
-judges 318
-owners and production records ..... 274 and 275
-placings 319
-reasons 318
-scoring key 319
-winners 351
Cows--cleanliness before examining 494
-close-up (feeding) ... 618-636
-close-up (fiber feeding) .. 558
-cooling 448-472-593
-disease cost (fresh) 272
-dry care 413-512
-eyes reveal stress levels. 820
-first-lactation (separate group) 316
-fertility 316
-fresh (care) 354
-fresh (drenching) 762
-fresh (mastitis check) 810
-fresh (tracking problems) 764
-fresh (4x milking) 473
-heat stress (avoiding) 388
-high-maintenance (care) 492
-hoof trimming 543
-indigestion 332
-lameness 203-352-744
-longevity 555-659
-longevity (linear classification scores) 230
-New Zealand population 347
-nosebleeds 130
-pinkeye 352
-pushing for production ... 330
-separating sick and fresh 734
-stress 656-699-758
-transition (mastitis susceptibility) 696
-treatment facilities 434
-transition feeding ... 558-618-636
Crops--marketing plans software 223
-rotations 675
-spraying practices 388
Crossbreds--IDs on 393
Crossbreeding 154-557-753
-calving ease 665
-sire selection 715
Crouch, R., dies 466
Cuddle rule--hogs (Germany) 266
Culling 103
-rates (national) 267
Custom heifer growers 143
Custom work--charges 518
CVM (complex vertebral malformation) 3-69-154-388

- D -

Dairy advisory teams --Round Table 184
Dairy Environmental Pilot Program-- Wisconsin (Brown County) 651
Dairy farmers--low-interest loans 573
Dairy Farmers of America --annual meeting 328
-Black Hills Milk Producers joins 582
-ends Colorado's milk quota plan 170
Dairy Farmers of Oregon --mini-moos 383
Dairy Field--top processors 798
Dairy Management Analysis Program 669
Dairy Management, Inc.-- Milk Marketing scholarships ..... EXPO 34
Dairy Map 669
Dairy policy options 7-99-
Dairy producers--share of retail product sales 3-507
Dairy products--consumer trust 423
-imports 506
-output (regional map) 670
-producers share of retail sales 3-507
Dairy promotion--Dairytown Diner 667
-got milk? 418
Dairy Relief, Inc. 215
Dairy science--graduates (careers) 644
Dairy setups--cost overruns 542
Dairying--exiting 23
-family business relations 550
-market power 549
-New Zealand 791

KEY TO PAGE NUMBERS

January 10	**1-44**	**June**	**417-464**
January 25	**45-92**	**July**	**465-504**
February 10	**93-132**	**August 10**	**505-544**
February 25	**133-172**	**August 25**	**545-580**
March 10	**173-220**	**September 10**	**581-608**
March 25	**221-264**	**September 25**	**609-648**
April 10	**265-308**	**October 10**	**649-688**
April 25	**309-344**	**October 25**	**689-736**
May 10	**345-380**	**November**	**737-784**
May 25	**381-416**	**December**	**785-840**

-positive image ... 423
-smaller farm ... 521
DairyMetrics ... 821
Dandelions--forage ... 479
Dean, H., succeeded by G. Engles ... 382
Dean Foods--Land O' Lakes alliance ... 583
-Suiza acquisition ... 47
-White Wave, Inc., acquisition ... 582
Depression ... 771
DFA--Minnesota whey plant closed ... 650
DHIA--changes ... 9
Diarrhea--calves ... 201
Dictionary--pocket Spanish ... 466
Diet--calcium/protein slow bone loss ... 424
Diner--Dairytown ... 667
Direct payments ... 190
Disinfectants--bleach and vinegar ... 646
Discovery Young Scientists ... 211
Disease--costs (fresh cows) ... 272
-resistance (sire selection) ... 716
-yearly goals ... 99
Displaced abomasum ... 89-285
Distillers' grains--bagging wet ... 665
Dorshorst, N.-- Student recognition winner ... 536
-wins Kildee Scholarship ... EXPO 32
Drenching ... 140
-fresh cows ... 762
Droopy cow syndrome ... 354
Drought--aid ... 582-691

- E -

Eazi-Breed CIDR Cattle Insert ... 532
Ed and Emma--book available ... 750
-50th anniversary ... 750
Editorials--African famine ... 752
-ag policy/trade policy ... 592
-anti-fat fervor faltering ... 556
-APHIS ... 556
-association finances ... 188
-beef irradiation ... 592
-BSE ... 60
-business goals ... 802
-cheese consumption ... 478
-cheese use and confidence ... 60
-Christmas scripture ... 802
-chronic wasting disease ... 280-478
-cow numbers ... 664
-dairy forum ... 148
-dairy image ... 802
-dairy markets ... 752
-dairy payments ... 520
-dairy trade ... 432
-dairying (changing practices) ... 394
-dairying (identity crisis) ... 714
-dairying (rules of good) ... 394
-DHIA changes ... 16
-Ed and Emma 50th anniversary ... 752
-farm bill ... 432
-farm bill debate ... 16-108
-farm bill reactions ... 520
-farm earnings ... 622
-farm visits ... 322
-forage feeding ... 802
-4-H 100th birthday ... 16
-hay loss ... 280
-heifer shortage ... 188-236
-herd sizes ... 432
-"higher-of" Class I pricing ... 394
-hog health precautions ... 358
-import check-offs ... 236
-land values ... 60
-longevity (characteristics) ... 236
-MILC program ... 622-664
-milk marketing ... 592
-milk-per-cow ... 520
-milk prices (recovery) ... 714
-milk pricing (farm bill) ... 148
-milk use (lifetime) ... 148
-MPC imports ... 280
-obesity ... 322
-on-farm processing ... 16
-outlook for 2002 ... 108
-overcrowding costly ... 188
-phosphorus overfeeding ... 752
-photo code of ethics ... 556
-price supports ... 478
-raw milk ... 394
-show-ring ethics ... 664
-show-ring ethics enforcement ... 280
-small farm success ... 322
-somatic cell levels ... 358
-Southern Marketing Agency ... 358
-trade rift U.S./Canada ... 108
-transition cows ... 622
-young sires (studs) ... 714
Education ... 163
-dairy ... 51
El Nino--possibility ... 177
Electric meters--updated ... 806
Embryonic losses ... 768
e-MOO ... 651
Employee Management for Production Agriculture ... 775
Employees--costs ... 246
-employer's attitude can help motivate ... 696
-feedback ... 388
-handling mistakes ... 216
-Hispanic (understanding) ... 476
-incentives ... 512
-meetings ... 340
-safety ... 256
-safety (adolescent worker) ... 162
-safety training ... 78
-Spanish lessons ... 441
Employer--attributes of good ... 766
Environment--issues slowing dairy growth in West ... 35
-PEACCE program ... 419
-phosphorus problems (series) ... 229-277
-regulations ... 315
-Threemile Farms ... 95
Environmental Protection Agency--air pollution regulations (California) ... 467
Equipment--corn harvesting, check ... 588
Equipment--dairy (economic stimulus package) ... 347
-leasing ... 52
ERCR rates ... 485
Ernstrom, C. A., receives Pioneer Award ... EXPO 22
Ethanol plants ... 204
Ethics--photo code of ... 556
-show-ring ... 280-294-664
Europe--animal welfare rules ... 511
Exclusively Swiss cheese ... 223
Expansion--labor shortage hindered ... 66
Exports--dairy (value increase) ... 2
-poultry, to Russia ... 267
Eyes--cow's, reveal stress levels ... 820

- F -

Family--advice source ... 821
-loss of, member ... 638
-stress handling ... 724
Family Dairies USA--Klossner heads ... 582
Farm--acreage drop ... 636
-business plan ... 24
-cost control ... 261
-dairy, numbers drop ... 695
-expansion (labor shortage hindered) ... 66
-neighbor-friendly ... 400
-odors ... 797
-operators by age ... 241
-safety ... 452
-small, efficiency ... 238
-small (keys to financial success) ... 660
-small, success (Round Table) ... 10
-strategic planning ... 101-147-180
-supplier conflicts ... 240
-survival after loss of family member ... 638
-transfer ... 228
-winter checklist ... 782
Farm bill--Class I payout ... 433
-website ... 645
-world trade picture ... 587
Farmer--"dumb" stereotypes ... 570
Farmland--values (commodity payments) ... 46
Fat--molasses improves milk, production ... 696
-thumbrules ... 623
Federal orders ... 679
-market administrators ... 589
-pooling ... 471
Feed--digestibility ... 88
Feed samples--mail delay ... 3
Feeding--anionic salts ... 17
-biotin ... 140-744
-calves (intensive) ... 250-292
-carbohydrates ... 68
-close-up cows ... 558-618-636
-corn by-products ... 204
-drought-stressed corn ... 595
-efficiency (improvement) ... 482
-fiber ... 558
-forage ... 317-794
-mastitis prevention ... 491
-molasses ... 696
-MUN ... 530
-phosphorus ... 180-412-624
-protein ... 99
-recommendations change ... 152
-refusals ... 99
-ryegrass ... 422-792
-selenium ... 574
-software ... 55
-soybean feeds ... 813
-soybeans ... 42
-TMR ... 698
-top herds ... 232
-trace nutrients ... 272
-transition cow ... 558-618-636
-vitamin E ... 574
Fertility ... 156
-stress could be lowering ... 699
Fertilizers--anhydrous ammonia ... 316
-grass ... 242 (R)
-pasture ... 242 (R)
-usage reduction ... 99
FFA--convention (career development event) ... 175
-convention (Indianapolis to host) ... 347
-corn maze project ... 299
-National Proficiency Award (J. Walther) ... 298
Fiber--feeding ... 558
-need for, in diet ... 364
Finances--benchmarking ... 223
Fires--tractor ... 161 (R)
Flashers--safety factor ... 512
Flotation tanks ... 761
Flowcytometry ... 47
Foods--irradiated ... 528
Foot-and-mouth disease --Britain free of ... 207
-South Korea ... 419
-statistics ... 140
-UK pig farmer fined ... 506
Foot problems--heel warts ... 102
Footbaths ... 203
-copper sulfate ... 438
Forage--acidosis causes digestibility drop ... 424
-dandelions ... 479
-feeding ... 317-794
-low-potassium ... 634
-Round Table ... 104
-sampling ... 323
-wrapped square bales ... 356
Forage particle separators ... 82
Foremost Farms--Chr. Hansen, Inc., alliance ... 820
Forum--dairy ... 139
Forward contracts ... 424
4-H--corn maze project ... 299
-Dairy Quiz Bowl (World Dairy Expo) ... 507
-judging (travel possibilities) ... 772
-Missouri, Camp ... 341
-Ohio program (new home) ... 311
100th birthday ... 496
-youth (positive attitude) ... 583
Four-State Management Seminars ... 24
Four-State Professional Dairy Management Seminar ... 441
Free stalls--analyzing ... 389
-comfort test ... 352-366-391
-dimensions ... 516
-neck rail position ... 388

FARM WRITE-UPS

Bennink, D. (foreign exchange labor) ... 661
Burroughs, C. and W. (grazing) ... 28 (R)
Hagen, K. and S. (raising show calves) ... 120 and 121
Matlink Farms (methane digesters) ... 474
Meadowsweet Farm (S. and B. Smith) -- on-farm marketing) ... 621
Reinhardt, J. and M. ... 114 (R)
South Mountain Creamery (Brusco family) -- on-farm milk marketing ... 621

- G -

Genetics--bull mothers ... 329
-gene erosion ... 249
Genex Cooperatives' Mating Appraisal for Profit ... 95
Germany--mad cow disease ... 453
Goedde, L., succeeds Blair ... 2
Goodrich, W. and S. (Distinguished Cattle Breeders ... EXPO 18
got milk?--copied ... 418
Graham, B., Sweepstakes ... EXPO 7
Grain--moving (new ways) ... 47
Grasses--pasture (fertilizing) ... 242 (R)
-stands (fertilization) ... 242 (R)
Grazing ... 744
-southern California ... 28 (R)
Great Britain--foot-and-mouth-free ... 207
Green payments ... 99
Guernsey--antiques ... 311
Guernsey bull--Kellogg Minnies Choice ... 130
Guernsey cow--Breezy Point P Racer (production record) 109
-Kilchona CC Tessa (highest lifetime milk production for breed) ... 119
-Westlynn Tom Dee (highest classified living Guernsey) ... 99

- H -

Hagen, K. and S. (raising show calves) ... 120 and 121
Hairy heel warts ... 102
Hands--washing important ... 494
Hay--conditioning ... 61
-drought-reduced harvest ... 650
-storing ... 407
Headlights--safety factor ... 512
Headlocks ... 141-395
Healthy Schools Summit ... 645
Heart disease--milk helps prevent (men) ... 8
Heat detection ... 117-202
-heat mount detectors ... 272
-measuring, rates ... 21
-Ovsynch ... 8
-Pre-Synch ... 8
Heat stress ... 388-442-472
Heat synchronization (Eazi-Breed CIDR Cattle Insert ... 532
Heel warts ... 102
Heifer--Jersey, clone ... 168
Heifers--A.I. (new synch method) ... 532
-breeding problems ... 218
-BST delay with first-calf ... 656
-custom growers ... 143
-early breeding ... 512
-excess potential ... 424
-feeding refusals ... 99
-first-calf ... 674
-growth expectations ... 446
-mammillitis ... 263
-pretreating, for mastitis ... 414
-separate pen ... 316
-springing (care) ... 272
-udder swelling ... 838
-western dairying influences supplies ... 150
-worth ... 187
Hemorrhagic bowel syndrome ... 776
Herbicides--alfalfa ... 180
Herd--management (Reinhardt farm) ... 114 (R)
-performance (DairyMetrics) ... 821
Herd health ... 434
Herd summary report --reading ... 550
Herds--larger, raise welfare concerns ... 808
-super (series) ... 142-232-276-475
-top-producing (keys to success) ... 552
Herdsmanship--scorecard ... 456
Hill, C., wins Klussendorf-McKenzie Award ... 701
Hilmar Cheese--California Dairy Quality Assurance Program ... 266
Hiroko ... 436
Hispanic--employees ... 476-787
Hoard, W. D., statute makeover ... 804
Hogs--cuddle rule (Germany) ... 266
Holidays ... 253
-unusual ... 365
Holstein--clone performance ... 352
Holstein Association USA --annual meeting ... 533
-Type Production Index formula ... 696
Holstein bull--Round Oak Rag Apple Elevation (accomplishments) ... 90
Holstein cow--Breezewood Patsy Bar Pontiac ... 61
-Muranda Oscar Lucinda (production records) ... 79
-C Taraley Astro Sherry (EX-97) ... 52
Holstein Foundation--fund-raising drive ... 467
Hoof trimmer--selecting ... 629
Hoof trimming ... 543
-chute vs. table ... 818
-course ... 582
Horizon Organic Dairies --honored ... 347
Hutches--bedding ... 180

HANDY HINTS

Angle-iron boom--weed spraying ... 455
Bale counter ... 335
Bales--wrapped silage (bird protection) ... 209
Barn--corner (plastic protection) ... 639
Battery charger--portable ... 571
Bird perches--eliminating ... 823
Blade--angled, pushes up feed ... 535
Boot scraper ... 771
Bottle washer ... 571
Bottles--dishwasher cleans ... 31
Box--calf-moving ... 535
Bucket--extension (see-through) ... 119
Calves--feed and care center (pull-behind cart) ... 335
-ID supplies ... 823
Clamps--pipe, hold tools ... 771
Cord--coat hanger holds ... 455
Cows--keep calving, from corners ... 401
Crowd gate ... 79
Culvert--building blocks make ... 401
Drain plug--bobber, string marks ... 401
Draw bar--bar makes 3-point hitch into ... 297
Drum--calving supplies storage ... 677
-grain feeder ... 297
-mineral dispenser ... 163
-real wheel weight ... 597
Drums--mob feeders made from ... 119
-suspended, hold calf starter ... 823
Feedbunks--bracket keeps feed in ... 163
Float--water tank ... 639
Floor--milk house protected by PVC pipes ... 31
Flour bins--grain ... 535
Fuel tank--portable ... 535
Fueling station--message center ... 639
Garden--starter ... 209
Gate hanger ... 571
Gauge--fuel (homemade) ... 771
Glass--broken (picking up) ... 79
Handle--slot, for reaching utility box ... 455
Headlocks--clip locks, open ... 823
-neck-rail ... 365
-pipe with bolt closes ... 677
Heifer--height measurement ... 495
Hook--bucket ... 401
Hooks--shovel, on tractor ... 365
Hose--pipe protects ... 455
-PVC protects ... 725
-rack ... 725
Hutches--road fabric under ... 495
Hydraulic cylinder--big bale moving ... 677
IV treatments--cable, snappers hold ... 571
Ladder--upright ... 163
Light stand ... 163
-pivoting ... 119
Lights--color, indicate operating equipment ... 725
Manure bucket--cleaning ... 771
Map--wall, identifies fields ... 253
Milking parlor--wall (pipe protects) ... 677
Neckrails--adjustable ... 597
Palpation rail--movable ... 79
Pencil scrapings--lubricating with ... 31
PVC pipe--eave troughs ... 253
-shovel, broom holder ... 209
Rack--calf nipple ... 639
Refrigerator--old, makes storage unit ... 495
Rim--steel, stores salt block ... 571
Rope--hanging auger ... 495
Rubber duckie--trains calves to drink ... 725
Rumen contents--mop squeezer screens ... 401
Screen--motor cover ... 365
Seeder--calibration ... 253-297
Sign--bull caution ... 823
Silo unloader--clothespin marks depth ... 253
Snow fence--bird control ... 597
Sprinkler stand ... 297
Stand--washer and dryer ... 209
Syringe--storage ... 535
Teat sprayer--cable suspends ... 297
Timer--Koster crop tester ... 31
TMR mixer--overhead pipes add water to ... 597
-"working" indicator ... 119
Tool rack--PVC pipe and post ... 365
Tow--pipe hitch ... 597
Wall--slatted ... 335
Waterer--drain ... 79
-drum calf ... 335
Wire mesh--bird nesting prevention ... 455

- I -

ID card--national ... 725
Identification--animal ... 222
Illinois Livestock Facilities Act ... 291
Imports--dairy products ... 506-645
-MPC ... 272
ImportWatch ... 506
Inbreeding ... 154
Incentives--employee ... 512
Income taxes--auditing (IRS) ... 227
-law changes ... 352
-mileage expense ... 189
Indigestion--cows ... 332
Infigen--cloned livestock ... 645
Injections--procedure ... 359
-sites ... 686
-vitamin E ... 574
Inoculant--silage ... 326
Insecticides--poisoning ... 718
Inspections--milking equipment ... 123
Insurance--health ... 47
International Dairy Foods Association's Dairy Forum ... 139
Internet--classes (Illinois) ... 573
-Dairy Herd Management Evaluation Report ... 669
-privacy ... 324
Irradiation ... 528
IRS--auditing ... 227

- J -

Jersey cow--Gaymar Imperial Lorna (living Excellent 96%) ... 218
-Greenridge Berreta Accent (protein record) ... 209
-Greenridge FW Chief Althea (living lifetime champion for protein) ... 189
-Mapleron Mercury Aron (top type and production Jersey) ... 180
-Normandell Khan Ariel (world record) ... 135
-PH Jewel (living Excellent 96%) ... 218
-TP Acres Sooner Mandy Flirt (living Excellent 96%) ... 218
-WF Barber Shasta (living Excellent 96%) ... 218
Jerseys--copper toxicity ... 8
-highest-producing herds ... 475
Johne's ... 567-630
-control program ... 760
-milk replacers do not carry ... 783
-spread prevention ... 816
Judging contest--Accelerated Genetics Intercollegiate Dairy Cattle ... 821

- K -

Kansas--cost-share programs (waste management) ... 650
Kappelman, P., Distinguished Alumni leader ... 135
Kendall, D., new executive secretary Brown Swiss Assn. ... 134
Kennedy, R. (Dairy Woman of the Year) ... EXPO 17
Kentucky Dairy Conference ... 157
Kernel processors ... 616
Ketosis ... 354
Kidnaping--children (protection) ... 597
Kildee Scholarship--winners ... EXPO 32
Klossner, R., head of Family Dairies ... 582
Klussendorf--scholarship ... 437
Klussendorf Award--Blessing wins ... EXPO 28
-history ... EXPO 44
-White wins ... 701
Klussendorf-MacKenzie Award --Hill wins ... 701
-winners (Moyer sisters) ... EXPO 33
Knees--swollen (calves) ... 436
Knotts, J. P., and Co. buys Bou Matic ... 383
Kruse, M. L., receives Pioneer Award ... EXPO 23

- L -

Labor (see employees)
Labor--foreign exchange ... 661
-shortage hindered

expansion 66
Lameness 203-352-744
Land--use (pie chart) 347
Land O' Lakes--Dean Foods alliance 582
-earnings 222
Lead poisoning 234
Leafhoppers--potato, in alfalfa 424
Lepto--vaccination 628
Light--milk off-flavors caused by, exposure 754
Lighting--barn 591
Lime--minor effect on stall bacteria 52
Linkskoog, W. (Dairyman of the Year) ..... EXPO 17
Lesions--sole 352
Leukosis--calves 171
Life--rules for 209
Linear classification 230
Loans--low-interest 573
Longevity 659
-linear classification scores 231
-relation to reproduction .. 555
-selection for 244
Lyon, T., retires 134

- M -

Machinery--economic stimulus package 347
Mad cow disease--Germany 453
Maine--organic milk 691
Mammillitis--heifers 263
Management--herd (Reinhardt farm) ..... 114 (R)
-herd (super herds) ..142- 232
Managers--certified livestock 291
-dairy, rating scorecard ... 235
Mange 656
Manure--alfalfa 320
-checking 749
-nutrient credits updated . 744
-nutrient levels compared 525
-recoverable nutrients from 820
-spills (handling) 228
Manure handling--Round Table 144
Manure haulers--custom 396
Manure pit--safety 696
Margarine--yellow (possible ban) 333
Market power 549
Marketing--crop (software) . 223
-power of (dairying) 549
Marketing Agency-In-Common 362
Maryland & Virginia Milk Producers--profits 383
Maryland Dairy Youth Camp..210
Mastitis--bedding and, risks . 391
-clinical (management decisions) 606
-control 590
-cultures 26
-dry cow 607
-drying off infected quarter 228
-feeding to prevent 491
-fresh cow check 810
-heifer pretreatment 414
-mycoplasma 140-153-610
-prevention 316-512-616
-reducing incidence 84
-resistance (clone) 168
-S. uberis 550
-staph 720
-Strep. ag. 484
-summer 248
-susceptibility during transition period 696
-treatment..... 8-180-283
Mating programs 183
Matlink Farms (methane digesters) 474
Maze--corn 299
McCullough Scholarships ..... EXPO 40
McDonalds--town center restaurants 383
McOmie Graduate Education Program 175
Medications--administering oral 122
Meeting--running a 744
Methane digesters 474
-California 419
-fund requests 414
-grant funding (California) 506
Metritis--prevention 316
Mexico--dairy import value 3
Michigan--Sierra Club monitors water 583
Michigan Milk Producers --cash patronage refunds 267
-cash payments 582
Mid-Atlantic Grazing Conference 492
Midwest Dairy Association --honored 223
MILC--payments 656
-program 616
-sign-up starts 550
Milk--adulteration 583
-antibiotic contamination . 582
-antibiotic safety 671
-antibiotic testing 512
-colon cancer risk cut 347
-farm-to-school cafeterias 252
-fat and protein levels and ratios 110
-fluid, beverage consumption among kids 691
-functional food 112
-global, output projection . 691
-heart disease prevention 8
-high-cell-count 755
-off-flavors 550
-off-flavors (light-induced) 754
-on-farm marketing (South Mountain Creamery) 621
-organic (Maine) 691
-producing high-quality ... 207-321
-protein (boosting) 715
-raw, danger 696
-raw, disease outbreak 95
-safe supply 341
-soy formula 691
-vending machines in school (California) 821
Milk fever 281
Milk Income Loss Contract --sign-up 550
Milk marketing--Colorado quota system ended 170
-supply-demand shifts 89
Milk prices--April mailbox ... 507
-August mailbox 135
-Boston 715
-Class III, affected by whey 483
-forward contracts 424
-future 522
-higher (possibility) 598
-July mailbox 47
-June mailbox 691
-mailbox, up 427
-managing 439
-March mailbox 467
-May mailbox 605
-monitoring 589
-November mailbox 347
-October mailbox 267
-prediction for 2002 113
-projection 812
-September mailbox 223
Milk pricing--Boston Class I price 433
-direct payments 190
-federal orders 471-679
-"higher-of" 404
-producer price differentials .679
Milk production--Argentina ... 46
-calf sounds boosted 721
-Northeast federal order .. 174
-projection for 2020 353
-projections 507
-pushing for 330
-Red and White record ... 481
-regional change 670
-Round Table 56
-slow growth 3-35
-top five states 179
-U.S. 231
Milk protein concentrate--imports 271
Milk quality 526-605
-maintaining 207
-PI counts 237
-taste and smell determine 14
Milk replacers 783-792
Milkers--robotic 181
-robotic, highlighted in USA Today 310
-training 54
Milking--4x 473
-4x or 6x 828
-4x versus 3x 803
-frequency 472
-routine 678
Milking equipment --inspections 123
-maintenance 527
-surface films 402-444
Milking machine--automatic removal settings 756
-operation 572
Milking parlors--low-cost options 588
-performance evaluation .. 390
-troubleshooting routine .. 388
Milking Shorthorns--questions 804-817-821-
Milk-to-feed ratio 440
Minerals--levels 160
Mini-Moos 383
Minnesota--livestock friendly counties 583
-State Fair (Dairytown Diner) 667
Missouri 4-H Camp 341
Molasses--feeding 696
Mower-conditioner--selection 286
Moyer, P. and M. (Klussendorf-MacKenzie Award winners) .....EXPO 33
Mueller, G., wins award 419
MUN--analysis 530
Mycoplasma 425
-calves 462
-mastitis 140-153-610
Mycotoxins--corn silage 517

MEETINGS

Employee Management for Production Agriculture 775
Four-State Management Seminars 24
Four-State Professional Dairy Management Seminar 441
Kentucky Dairy Conference 157
Managing the Hispanic Workforce 787
Mid-Atlantic Grazing Conference 492
Mid-South Ruminant Nutrition Conference 68
National Institute for Animal Agriculture ... 222
New England Dairy Conference 67
North American Conference on Robotic Milking 157
Northeast Dairy Producers Conference 157
Ohio Dairy Conference 733
Professional Dairy Heifer Growers' Assn. Calf and Heifer Conference 69
Professional Dairy Producers of Wisconsin 624
Tri-State Dairy Nutrition Conference 160
Tri-State Northwest Dairy Shortcourse 24
Upper Midwest Grazing Conference 441
Western Dairy Management Conference 645

- N -

National Cattlemen's Beef Assn.--membership decline 583
-statement 383
-Stokes CEO 310
National Conference on Interstate Milk Shipments 123
National Dairy Council --Healthy Schools Summit 645
National Dairy Shrine -Guest of Honor ..... EXPO 25
-McCullough scholarships ..... EXPO 40
-Milk Marketing scholarships ..... EXPO 34
-Pioneers honored . EXPO 22
-Progressive Dairy Producers ..... EXPO 35
-Student Recognition winner 536
-Student Recognition winners ..... EXPO 37
-website 135
National Institute for Animal Agriculture 222
National Junior Holstein Association--membership 174
National Milk Producers--action on imported dairy proteins 382
-California Dairies join 650
Neck rail--position 388
Needles--size for hormone injections 359
Neospora 53-792
Neosporosis--vaccine 135
New England All-Breed Convention 65
New England Dairy Conference 67
New York--tie for highest quality milk 651
New Zealand--colostrum marketing 291
-cow population 347
-dairy pollution 650
-dairying 791
-milk production 583
Nitrates--load reduction 99
-poisoning 616-719
North American Conference on Robotic Milking 157
North American Intercollegiate Dairy Challenge 134-418
Northeast--federal order milk production 174
Northeast Dairy Producers Conference 157
Nosebleeds--cows 130
Nutrient management --nutrient level variation ... 525
-regulations 387
-Round Table 144
-website 691
-Wisconsin 633
Nutrition--research reports . 619

- O -

Obesity--calcium fights 3
-epidemic 334
Odors--dairy farm 797
Off-flavors--factors associated with 550
Office--accounting and security tips 402
Ohio--4-H program (new home) 311
Ohio Dairy Conference 733
Ohio State University --animal welfare topics 266
Oral medications--giving 122
Oregon/California Klamath Basin--irrigation water restored 383
Osteoporosis--calcium lack caused 222
Ovsynch 8-792

- P -

Particle separator--add-on . 620
Pasteurizers--home 109
-survey 3
Pastures--grass (fertilization) ..... 242 (R)
Patent--process for making cheese 419
Patriotism 119-535
PEACCE program 419
Pedigrees--decoding 32
Penn State particle separator--add-on 620
Pennsylvania--PEACCE program 419
Pfizer--Pharmacia purchased by 573
Pharmacia--Pfizer purchases 573
-spinoff Monsanto 3
Phosphorus--environmental problems (series) 229-277
-feeding 180-412-624
-soil levels 174-180
PI counts--high 237
Pinkeye 352
Plastic--measuring baleage .753
Pneumonia--calves 672
Poem--Still proud to be farmers 451
Poisoning--food, cases drop 882
-insecticide 718
-lead 234
-nitrate 616-719
-silo gas 472
-urea 718
-yew 719
Population--aging (U.S.) 506
Ports--supervision 135
Potassium--forages 634
Potato leafhoppers--alfalfa . 424
Poultry--exports to Russia . 267
-Russia removes import ban 347
Pregnancy--loss 768
Pre-Synch 8-792
Presynchronization 792
Prions--research (military) .. 691
Processors--Dairy Field's top 798
Professional Dairy Heifer Growers' Assn. Calf and Heifer Conference 69
Professional Dairy Producers of Wisconsin 624
Prolapsed uterus 477
Propionic acid--applicators (certified) 281
Protein--calcium slow bone loss 424
-feeding 99
-milk (boosting) 715

- Q -

Quality Certification Services --auditing contract 2
Quiz--cheese 228-254-255
-family business relations 550
-Hoard's Dairymen 824

- R -

Rabies--vaccination 218
Rations--intake calculations 228
Records--good, help prevent residue penalties 158
Red and White Holstein--Elm-Park Moselle-Red-ET (world milk production record) ...174
-questions 809
-Sikkema-Star Licric Vee-Red sets world record 481
Reinhardt, J. and M. (herd management) . 114 (R)
Relief Fund--contributions 46
Remsberg, J., wins science project award 211
Reproduction--abortions 415
-fertility 156
-fertility math 524
-keys to high performance . 492
-longevity and relation to 555
-nutrition and 624
-problems 13
-Round Table 746
-stress affects 699
-terms 290
-ultrasound 513
Reproductive trouble --trichomonas 713
Research--ADSA, reports .. 619
Residues--records help prevent penalties 158
Resynchronization 594
Ripley, R., president Expo board of directors . 266 ..... EXPO 3
Roads--stress 135
Robotic milking 181
-USA Today article..... 310
Round Table--dairy advisory teams 184
-Nutrient use is a balancing act 144
-They are successfully staying small 10
-They keep a close eye on reproduction 746
-They pour the forage to their cows 794
-Top forages bring top production 104
-Toward improved production 56
Rumler Scholarship--Zwald wins 573
Russia--poultry exports to .. 267
-U.S. poultry import ban removed 347
Ryegrass--feeding 422-792

RECIPES AND FOODS

Appetizer--Southwestern cheese 454
Bars--chunky chocolate 118
Beef--heart health 208
Blueberries 296
Burritos--beefy Chinese 676
Cake--mocha 770
Casserole--easy green bean770
Cheesecake--Ellen's 534
-orange 534
-strawberry, trifle 534
Cheesecake bars-- chocolate chip 534
Coffee cakes--Streusel sour cream 208
Custard--cup 30
Galette--butternut and blue cheese 596
Ham delights 454
Lemon bars--Cheryl Wolf's 454
Menu--Thanksgiving 770
Milkshake--mint chocolate (roadrunner) 118
Muffins--cheesy treasure 208
-Native American maple corn 208
-zucchini carrot 208
Pancakes--blueberry buttermilk 296
Pate--basil 454
Pie--stuffed beef and black bean tamale 676
Pork roast--chestnut-stuffed 770
Pots de creme 30
Pudding--chocolate praline bread, with cinnamon cream 118
Pudding--creamy rice 30
Risotto--butternut 364
-cooking 364
-fresh corn, with basil, tomato, and lime 364
-tangy tomato and lemon 364
Roadrunner 118
Salad--mined blueberry fruit 296
-tropical blueberry, pineapple, and jalapeno 296
-tuna-avocado 296
Soup--Melissa's butternut squash 596
Spread--hot artichoke 454
Squash 596
-Flo's 596
Steak--salisbury 676
Thanksgiving--menu 770
Tiramisu 30

- S -

S. uberis--mastitis 550
Safety--adolescent farm worker 162
-agricultural 383
-chemicals ..... EXPO 38
-children 663
-employee 256
-farm 78
-highway machinery 512
-manure pit 696
-silage-storing 140
-tips 452
Sale--All-American Jersey . 801
Salmonella--birds may not cause 186
-vaccine 744
Sand--recycled, for bedding 424
Sanders, J., wins Klussendorf scholarship 691
Sandhills Irrigation Research Unit 383
Savings--rules 99
Scabs--teat-end 343
Scholarship--Kildee (winners) ..... EXPO 32
-Klussendorf 437
-Klussendorf Memorial Assn. 691
-Milk Marketing ..... EXPO 34
-Rumler (Zwald wins) 573
Schools--milk 252
-milk vending machines . 431-821
-soda sales banned in L.A. 651
Scrapie--tracking 3
Secrets--keeping 455
Security--national 159
Sires--A.I., ranked on conception rates 22
Selenium--supplementation 574
Semen--commodity status . 488
-fertility check 47
Semen tanks 774
Seminars 51
Show--All-American Jersey 801
Show--BRUNA Brown Swiss (Switzerland) ..... EXPO 42
-total merit 164
Showing--biosecurity ... 406-502
Show-ring--bar codes and scanners ..... EXPO 24
-ethics 294-EXPO 15
Shows--history ..... EXPO 44
Sierra Club--Michigan water monitoring 583
Silage--corn (monitoring feed value) 588
-corn (mycotoxins) 517
-corn (pricing) 773
-corn (ryegrass replacement 792
-corn (top 10 states) 266
-inoculant 326
-making 512
-processed 616
-processing (custom operator) 557
-storing (safety) 140
Silo bags 426-512-656
Silo gas poisoning 472
Silos--bunker (covers) 424
Sire sampling--young 551
Sire selection 52-182-244

KEY TO PAGE NUMBERS

January 10.....1-44
January 25.....45-92

February 10.....93-132
February 25.....133-172

March 10..... 173-220
March 25..... 221-264

April 10.....265-308
April 25.....309-344

May 10.....345-380
May 25.....381-416

June.....417-464
July.....465-504

August 10.....505-544
August 25.....545-580

September 10.....581-608
September 25.....609-648

October 10.....649-688
October 25.....689-736

November 737-784
December.....785-840

-calving ease ... 553-626
-crossbreeding ... 715
-disease resistance ... 716
-net merit dollar ... 656
-somatic cell scores ... 428
-twinning reduction ... 52
Sires--misidentified ... 8
-A.I., ranked on conception rates ... 485
Skin--problems (cattle) ... 814
Sleep disorders ... 401
Smith, K., wins Kildee Scholarship ... EXPO 32
Smoking ... 31
Social security--disability ... 149
-earnings limits ... 109
-losses drop ... 521
-start date ... 395
Soda--California proposed tax on ... 382
-sales banished in L. A. schools ... 651
Software--feeding ... 55
Soil--compaction ... 189
-phosphorus levels ... 174-180
-samples (accuracy) ... 588
-tillage practices ... 316
Somatic cell counts ... 321-341-342-720-744
Somatic cell score--sire selection on ... 428
Sorento--cheese plant closed ... 46
South Korea--foot-and-mouth ... 419
Southern Marketing Agency --formed ... 363
Soybeans--feeding ... 42-813
-oil (project to develop more uses) ... 311
-production ... 47
-raising ... 42
Spanish dictionary ... 466-506
Spraying--crop ... 388
Spring cleaning ... 297
Sprinklers--selection ... 593
SSI--qualifications ... 109
Stalls--liming ... 52
-surfaces (lameness) ... 744
Starling--control ... 278
Starlink--settlement ... 311
Statue--Hoard, makover ... 804
Stiles, C., life story ... 750
Stokes, T. L., CEO National Cattlemen's Beef Assn. ... 310
Strategic planning ... 101
Strep. ag. ... 484
Stress--cattle ... 180-656-699-758
-cow's eyes reveal, levels ... 820
-handling family ... 724
Suiza--acquisition of Dean Foods ... 47
Supermarkets--food sales ... 651
Suppliers--conflicts with ... 240
Supply management ... 7
Survey--pasteurizers ... 3
Sweepstakes--Bill Graham World Dairy Center International ... EXPO 7
Swiss Valley Farms--Better Business Bureau Integrity Award ... 95
-"cash for caps" ... 582
-cheese award ... 2
Switzerland--BRUNA Brown Swiss show ... EXPO 42

- T -

Tails--docking ... 90
Tanks--flotation ... 761
Taxes--auditing (IRS) ... 227
-law changes ... 352
-mileage expense ... 189
TB--California dairy herd ... 466
-California, free ... 588
-Canadian herd ... 466
-Michigan ... 792
-Texas loses, free status ... 311
Teat dips--bulk delivery ... 733
-evaluating ... 658
-mistake (burned teats) ... 786
Teats--burned ends (tip dip mistake) ... 786
-injury treatment ... 360
-scabs ... 343
Texas--cooling pond ban ... 363
-TB-free status lost ... 311
Threemile Canyon Farms --environmental harmony ... 95
Thwailes, J. (International Person of the Year) ... EXPO 17
Tie stall barn ... 1228
Tillage--practices ... 316
TMR--feeding ... 698
-filling order ... 332
Tornadoes ... 495
Total merit show ... 164
Tours--virtual farm ... EXPO 26 ... and EXPO 41
Trace nutrients--feeding ... 272
Tractor--fires ... 161 (R)
-McCormack, to be produced again ... 174
Trichomonas ... 713
Trimming chute--vs. table ... 818
-table vs. chute ... 818
Tri-State Dairy Nutrition Conference ... 160
Tri-State Northwest Dairy Shortcourse ... 24
Tunnel ventilation ... 50
Twinning--incidence ... 52
-negative effects ... 100
Type--traits ... 103
Tyson Foods--illegal immigrant charges ... 223

- U -

Udder--swelling (calves and heifers) ... 838
Ultrasound ... 203-513
-screening (show-ring) ... 294
United States--population aging ... 506
University of Wisconsin Dairy Barn--National Register of Historic Places ... 222
Upper Midwest Grazing Conference ... 441
Urea--poisoning ... 718
USA Today--robotic milking article ... 310
USDA--farm bill implementation (temporary employees) ... 507
Uterus--prolapsed ... 477

- V -

Vacation--labor needs at home ... 480
Vaccination--BVD 352, 697,793
-lepto ... 628
-negative, short-term effects ... 272
-rabies ... 218
Vaccine--neosporosis ... 135
-salmonella ... 734
Vending machines--milk ... 431-821
Ventilation--tunnel ... 50
Veterinarian--tips until, arrives ... 554
Video--show ethics ... EXPO 15
Vinegar--disinfectant ... 646
Vitamin E--supplementation 574
Vocabulary-farm ... 677
Voegeli, H., honored ... 174
Voelker, D. E., receives Pioneer Award ... EXPO 23

- W X Y Z -

Walter, J.--FFA Proficiency Award ... 298
Warts ... 102-203
Washing--hand, important 494
Washington--baby calves attacked ... 651
Washington Dairygrams ... 5-49-97-137-177-225-269-313-349-385-421-469-509-547-585-613-653-693-741-789
Waste management systems --Kansas cost-share ... 650
Water--chlorine treatment ... 472
-conservation ... 571
-fresher, boosted milk ... 398
-irrigation, restored in Oregon/California Klamath Basin ..383
-requirements for dairy cattle ... 228-368
Water meters ... 237
Website--farm bill ... 645
-nutrient management ... 691
-teen ag ... 691
Weeds--nonchemical control 91
Weigel, R., joins Dairy Expo staff ... EXPO 40
West--environmental pressures ... 35
-heifer supply influenced by ... 150
Western Dairy Management Conference ... 645
Whey--Class III milk prices affected by ... 483
-health-enhancing proteins in ... 383
White, S., wins Klussendorf Trophy ... 701
White Wave, Inc.--Deans acquires ... 582
Wilson, R. D., succeeds T. Lyon ... 134
Winkelman, L. (4-H judging experiences) ... 772
Winter--preparing for ... 782
Wisconsin--low-interest loans (dairy farmers) ... 573
-nutrient management ... 633
Women--dairy, peer groups 822
World Dairy Expo--Arena Building map ... EXPO 14
-Behnke, L. ... EXPO 16
-Coliseum map ... EXPO 11
-Dairy Woman of the Year ... EXPO 17
-Dairyman of the Year ... EXPO 17
-date change ... EXPO 21
-Distinguished Dairy Cattle Breeders ... EXPO 18
-Dominican Republic delegation ... EXPO 39
-Exhibition Hall map EXPO 12 and EXPO 13
-exhibitor list and guide ... EXPO 8
-exhibitors ... EXPO 15
-EXPO Market ... EXPO 3
-flight discounts 506-EXPO 3
-forage research ... EXPO 47
-4-H Dairy Quiz Bowl ... 507
-grounds map ... EXPO 27
-Industry Person of the Year EXPO 17
-International Persons of the Year (past) ... EXPO 21
-judges ... EXPO 19
-judging contest winners 722-723
-notes from ... 701
-nominations being accepted ... 820
-on-line cattle entering ... EXPO 40
-Outdoor Trade Mall map ... EXPO 14
-Ripley president board of directors ... 266-EXPO 3
-Royal Brand Embroidery official, embroiderer ... 694
-schedule ... EXPO 10
-schedule for 2003 (Tuesday through Saturday) ... 267
-show winners ... 702 and 703
-Sweepstakes ... EXPO 7
-trade show booths EXPO 43
-trade show guide ... EXPO 30
-venders ... EXPO 46
-virtual farm tours ... EXPO 26 ... and EXPO 41
-Weigel joins staff ... EXPO 40
World Trade Organization --negotiating round ... 587
Yew--poisoning ... 719
Yogurt--farm marketing (Meadowsweet Farm) ... 621
Young Dairy Leaders Institute --Distinguished Alumni Leader ... 135
Zurborg, C., Guest of Honor ... EXPO 25
Zwald, N., wins Rumler Scholarship ... 573

PICTURED WERE . . .

Abbott, T. ... 65-801
Albrecht, R. ... EXPO 37
Anastasoff, B. C. ... 570
Anderson, C. and S. ... 10
Anderson, G. R. ... 227
Anker, J. and V. ... 10
Ayars, J. ... EXPO 19
Ayrshire bull--Ardrossan Marathon Wandringeye ... 564
-Palmyra Lover's Heligo's-ET ... 198
Ayrshire cow--Des Prairies Tou Tou ... 703
-Mini-Ayr IC Charlene C ... 140
-Shamrock Hills Splotchy 149
Backus, H. ... 65
Barlass, K. ... EXPO 37
Beal, D. ... 135
Behnke, L. ... EXPO 16
Bennink, D. ... 551
Berning, E. ... EXPO 34
Biagiotti, P.R. ... 513
Blaska, G. ... EXPO 17
Blessing, S. ... EXPO 29
Borba, N. ... EXPO 37
Brache, J. ... EXPO 39
Brey, A. ... 56
Brown Swiss bull--R Hart EC Eagle ET ... 199
-R Hart Protein Excite ET 565
-White Cloud Doreen's Delegate ... 31
Brown Swiss cow--IE Fabs Maple Sugar ... 42
-Kruses GK Jade Fantasy Vix ... 17
-Mort Tower Frisky ... EXPO 28
-Old Mill ED Snickerdoodle 702
-Top Acres PR Popsy ... 8
-Valligrove Jetway Nora ... 703
Brubaker, L., T., and M. ... 105
Brusco, T. and A. ... 621
Budjon Farms--owners and work crew ... 274
Buhl, B. and E. ... 700
Burroughs, C. and W. ... 28 (R)
Burt, D. ... 175
Cal Poly judging team ... 821
Call, B. ... EXPO 32
Central National Showmanship Contest--senior winners ... 723
Clark, L. ... EXPO 35
Coffeen, K. ... 703
Collins, K. ... 175
Commerer, B., G., and M. ... 184
Cooperative--Select Sires, judging team ... 371
Covington, C. ... 577
Cramer, K. ... 772
Cropp, B. ... 139-471
de Ondarza, M. B. ... 354
Dickson, D. ... EXPO 19
Dixie Chicks ... 418
Dixon, S. ... 65
Dorshorst, N. ... 536, EXPO 32 ... and EXPO 37
Dugan, P. ... 104
Dyment, D. ... EXPO 19
Eash, D., and B. ... 795
Elder, J. ... EXPO 34
Emerald Farms--owners and crew ... 275
Emstrom, C. A. ... EXPO 22
Fassett, G. ... EXPO 43
Ferry, R. ... EXPO 15
FFA--James Buchanan High School ... 370
Fitzsimmons, B. ... 65
Florent, M. ... EXPO 40
4-H--Carroll County, Dairy Club ... 370
-North American Invitational, Dairy Quiz Bowl team ... 801
-Wisconsin, judging team ... 723
Gaver, L. ... 210
Ginder, D. ... 746
Gingrich, L., Family ... 105
Goodrich, W. and S. ... EXPO 18
Graham, B. ... EXPO 7
Guernsey bull--Kellogg Minnies Choice ... 130
-Marodore Goliaths Ronald 200
-Trotacre Enhancer Lewis ... 566
Guernsey cow--Breezy Point P Racer ... 109
-Four Winds Magicman Delight ... 703
-Jenoway Perfecto Jenine ... EXPO 1
-Kilchona CC Tessa ... 119
-Westlynn Tom Dee ... 100
Hagen, K. and S. 120 and 121
Haile, R. ... 747
Hall, G. ... EXPO 44
Hanman, G. ... 139-328
Heinrichs, J. ... 82
Herman, B. and R. ... 178
Hetts, R. ... 772
Hill, C. ... EXPO 19-701
Hoggard, M. D. ... EXPO 43
Holstein bull--Carol Prelude Mtoto-ET ... 561
McCloe-Pond Trent ... 195
-Mr. Shipsholm Glenwood-ET ... 195
-Round Oak Rag Apple Elevation ... 90
-Windsor-Manor Machoman-ET ... 561
Holstein cow--Breezewood Patsy Bar Pontiac ... 61
-C Taraley Astro Sherry ... 52
-Jerian Mason Sterling EXPO 7
-Muranda Oscar Lucinda ... 79
-Vandyk-K Integrity Paradise ... 702
Holstein heifer--Hagen Starbuck AKI-ET ... 121
Hood, T. ... 144
Hopper, E. B. ... EXPO 44
Howe, B. ... EXPO 19
Huntington, L. ... 65
Hurtgen, E. ... EXPO 40
Hutjens, M. F. ... 619
Iager, A. ... EXPO 37
Illinois Dairy Quiz Bowl team 761
Jersey bull--Rock Maple Brook Mannix ... 198
Jersey cow--Blacky Rose of Briarcliffs ... 702-801
-Edgeview Renaissance Jane 57 ... 351
-Gaymar Imperial Lorna ... 218
-Greenridge Berretta Accent ... 209
-Greenridge FW Chief Althea ... 189
-Mapleron Mercury Aron ... 180
-Normandell Khan Ariel ... 135
-PH Jewel ... 218
-TP Acres B Sooner Mandy Flirt ... 218
-WF Barber Shasta ... 218
Jersey heifer--Annie ... 168
Johnson, S. ... 515
Kaler, A., C., M., J., and R. 795
Kappelman, P. ... 135
Kelsey, J. ... EXPO 37
Kendall, D. ... 514
Kennedy, R. ... EXPO 17
Kerfeld, T., C., A., R., N., N., and J. ... 794
Koester, D. and D., families 57
Koopmans, D. ... EXPO 15
Krause, C. and W. ... 104
Kruse, M. L. ... EXPO 23
Lawcewicz, T. ... EXPO 1
Levesque, P. ... 572
Levins, R.A. ... 549-743
Lindskoog, W. ... EXPO 17
Lozmac, B. ... 144
Luttropp, J. and P., Family 274
Lyon, T. ... 134
Mains, D. ... 185
Maryland and Virginia Milk Producers--directors ... 347
Maryland Dairy Youth Weekend--participants ... 210
Mashek, D. and B., and Family ... EXPO 35
Mattingly, N. and K. ... 11
McAnliss, W. ... 185
McKnight, M. and S. ... 144
Meyer, C. and J. ... 746
Meyer, E. C. ... 772
Meyer, J. ... 533
Milking Shorthorn bull--Blaser Acres Pepper B2 ... 199-565
Milking Shorthorn cow --Sterryan Style ... 703
Millker Family ... 185
Moen, B. ... 351
Mohan, B. ... 747
Morris, J. ... 772
Morris, M. ... EXPO 35
Moucha, K. ... EXPO 24
Moyer, P. and M. ... EXPO 33
Mueller, G., family, and herdsman ... 419
Mueller, T. ... 747
Myers, H. C., Jr., B., and E. 145
Nascimento, E. ... 747
Nesbitt, A. ... 135-EXPO 16
New York-Morrisville judging team ... 722
Norris, I. ... EXPO 37
Olson, K. E. ... 695
Ooms, E. ... 701
Pagel, G. and J. ... 11
Patrick, D. ... EXPO 19
Peeler, I. ... EXPO 37
Pierson, D. ... 135
Polzin, B. ... 794
Popp, R., family ... 419
Potts, J. ... 351
Ragalie, J. ... 423
Red and White bull--Peck-Valley Achiever-Red-ET . 565
-Starstruck J Paradox-Red-ET ... 199
Red and White cow--Elm-Park Moselle-Red-ET ... 174
-Jimdandy R S Glamour Shot ... 703
-Sikkema-Star Licric Vee-Red ... 481
-Spungold Tahoe-Red ... 702
Red and White heifer --Rafter-G Rubens Gift ... 417
Redd, R. ... 175
Regli, J. ... 145
Reinhardt, J. and M. ... 114 (R)
Remsberg, J. ... 211
Rhoderick, M. ... 210
Rios, A. ... EXPO 39
Ripley, R. ... 266, EXPO 3
Rodriguez, J. ... EXPO 39
Sattazahn, K. ... 51
Saurez, C. ... EXPO 39
Schirm, L. ... EXPO 19
Schouten, M. and Z. ... 746
Schultz, S. and T. ... 794
Selner, D. ... EXPO 16
Sheppard, D. J. ... 175
Smith, C. and D. ... 638
Smith, K. ... EXPO 32
Smith, N. ... 514
South Lane Farm--owners and crew ... 275
Stiles, C. ... 750
Stiles, A., C., M., P., and L. 351
Stilling, B. ... 772
Stokes, T. L. ... 310
Strohmeyer, H. A. ... EXPO 44
Strusz, M. ... EXPO 34
Sycamore Hill Farm--crew . 275
Tande, L. ... EXPO 19
Taylor, B. ... EXPO 29
Thompson, M. ... 65
Thwaites, J. ... EXPO 17
Tipton, E. L. ... 139
Trimmer, S. ... 747
Tyrrell, N. ... EXPO 37
Ulness, M., J., E., and E. 56
University of Wisconsin judging team ... 722
University of Wisconsin Team 1 judging team ... 371
Uppena, M. ... 370
Van Excel, H. ... EXPO 19-801
Vande Zande, A. and S. ... EXPO 15
Voelker, D. E. ... EXPO 23
Waldo, B. ... 144
Walther, J. ... 298
Watson, T. ... 175
Weigel, K. ... 182
Welle, M. ... 747
Wentworth, B. ... 515
White, S. ... 701
Wieghart, M. ... EXPO 35
Wilhide, M. and R. ... 184
Wilson, R. D. ... 134
Winkelman, J. ... EXPO 37
Winkelman, L. ... EXPO 34, 772
Wright, T. ... 340
Zieroth, J. and J. ... 57
Zurborg, C. ... EXPO 25-589

KEY TO PAGE NUMBERS

January 10	**1-44**	**June**	**417-464**
January 25	**45-92**	**July**	**465-504**
February 10	**93-132**	**August 10**	**505-544**
February 25	**133-172**	**August 25**	**545-580**
March 10	**173-220**	**September 10**	**581-608**
March 25	**221-264**	**September 25**	**609-648**
April 10	**265-308**	**October 10**	**649-688**
April 25	**300-344**	**October 25**	**689-736**
May 10	**345-380**	**November**	**737-784**
May 25	**381-416**	**December**	**785-840**

COVER PICTURES

Ayrshire class in cow judging contest ... 133
Brown Swiss--Switzerland . 345
Brown Swiss class in cow judging contest ... 1
Christmas drawing ... 785
Clauss Dairy Farms Jerseys (R. Clauss and Family) .. 649
Double-J Jerseys (J. and J. Banson) ... 265
Excel Dairy (Vander Horst and Mear) ... 221
Garcia, B. ... 417
Goodrich Jerseys ... 581
Grootendorst Farms Holsteins (H. and A. Grootendorst) 309
Guernsey class in cow judging contest ... 93
Holstein class in cow judging contest ... 45
Jersey class in cow judging contest ... 173
Leolsky, J. and M., Holsteins 689
Mountain View Holsteins (J. and M. Nye) ... 505
N-Lar Farms Holsteins (Alexander family) ... 609
North Florida Holsteins ... 381
Oak Forest Farms Brown Swiss (Geadelmann Family) ... 545
Southern Hill Holsteins (L. and T. Griffith) ... 737
Villa Crest Farms Guernseys (V. and G. Weaver) ... 465